Name : _____ Score : _____

Identifying Solutions - MCQ

Two-step: S2

Choose the correct solution that best describes each inequality.

1) $\frac{|6x|}{54} + 5 < 6$

a) $(9, \infty)$ b) $(-\infty, -9) \cup (9, \infty)$

c) $(-\infty, 9)$ d) $(-\infty, 9) \cap (-9, \infty)$

2) $|3x + 15| > 30$

a) $(-\infty, -15) \cup (5, \infty)$ b) $(-\infty, 15) \cup (5, \infty)$

c) $(-\infty, -5) \cup (15, \infty)$ d) No solution

3) $|-13x| + 4 \leq 43$

a) $(-\infty, 3] \cup [-3, \infty)$ b

c) $[-3, \infty)$ d

b) $(-\infty, 51] \cup [-51, \infty)$

d) $[51, \infty)$

5) $|10x| + 9 > 29$

a) $(-\infty, -2) \cup (2, \infty)$ b

c) $(-\infty, -2)$ d

b) $(-\infty, 10) \cap (2, \infty)$

d) $(-\infty, 10) \cap (-2, \infty)$

7) $\frac{|x - 18|}{4} \geq -16$

a) $(-\infty, -46] \cup [-84, \infty)$ b) $(-\infty, -84] \cup [46, \infty)$

c) $(-\infty, 46] \cap [-84, \infty)$ d) No solution

8) $|6x + 24| \leq 48$

a) $(-\infty, -12]$ b) $(-\infty, 4] \cap [-12, \infty)$

c) $(-\infty, 12] \cap [-4, \infty)$ d) $[4, \infty)$

Name : _____ **Answer key** Score : _____

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